## HOFF, F.H. ANCH, D.B. REEN, J. H. IRLINGAME, A.H. OUCHER, D.W. VIS, J.G. /ERED. J.E RRERA, D.W. RRIS, L.R. RANCIS, G.E CODWIN. R ALY, T.J. RSH. J.M. RBY, W.A. RKEBO. J.A AJESTIC, J.R. ELLEN, J.B. URRENS, B ONTROSS, B.W. ORGAN, R.V. ORTH, P ARNELL, R.F OTTER, G.L. HOADES, J.L AFFELL, B.F HANNON, W.M WANSON F.R AN LEUVEN, D.B. (ARNER. B.P. VEEBY, J.S VILKINSON, R.B. OUNG, E.R. ORRES CONTROL

CLASSIFICATION:

UCNI		L
UNCLASSIFIED_		
CONFIDENTIAL		Г
SECRET	1	Т

AUTHORIZED CLASSIFIER SIGNATURE

DATE /2/5/10

PC#
LTR APPROVALS
ORIGO TYPIST INITIALS

RF-46469 (Rev 10/90)

## EG&G ROCKY FLATS

EG&G ROCKY FLATS, INC.
ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

December 6, 1990

90-RF-7243

Robert M. Nelson, Jr. Manager DOE, RFO

Attn: D. P. Simonson

207B SOUTH SOLAR EVAPORATION POND

Reference: D. P. Simonson Itr to J. M. Kersh, WMED:10746, 207B South Solar Evaporation Pond, December 4, 1990

EG&G personnel have inspected the referenced pond and are aware of problems associated with the hypaton liner. In at least two locations, the hypaton liner is floating and can be observed visually. These buoyant domes (commonly referred to as buffaloes in the liner industry) are near the North-East corner of the pond, one slightly above the pond surface and one slightly below.

EMAD's assessment is, that a release has not occurred from the pond, and that the liner integrity has not been compromised. Investigations regarding possible sources of hydrostatic pressure and historical circumstances which may identify the source and potential remedies continue. We will advise your staff immediately upon discovery of any information which may confirm or refute our opinions, or any significant observed changes in the condition. EMAD personnel have made a diligent investigation of possible causes of this condition and are continuing to assess the problem and locate the source. Additional field investigations are currently being conducted, and daily monitoring of the pond will continue, until the problem is mitigated.

It is important to understand that this is a very difficult problem to adequately characterize and we are not completely confident with out understanding of its cause(s). If conditions causing this problem become worse, it is conceivable that the hypalon liner could rupture. If this occurs, the pond contents would be contained only by the two lining layers, installed prior to the hypalon. Since the integrity of these lower layers cannot be considered to be sufficient containment, a contingency plan for immediate evacuation of pond liquid will be developed.

REVIEWED FOR CLASSIFICATION/UCNI

Denta

A-0U04-000102

R. M. Nelson, Jr. December 6, 1990 90-RF-7243 Page 2

If you have any questions or require additional information, please call Bob James of my staff at extension 5006.

7. M. Kersh, Associate General Manager Environmental Restoration & Waste Management EG&G Rocky Flats

BJ:la

Orig. and 1 cc - R. M. Nelson, Jr.